

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: SHAPER

Report Number: G3-2203-583-12

Luminaire Tested: 307-FR-120-BRMT-WHST

Test Date: 6/14/2022

Test Information

Test Method: LM-79-2019
Report Number: G3-2203-583-12
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/14/2022
Issue Date: 6/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 307-FR-120-BRMT-WHST
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, STONE BROWN MATTE (OPAQUE) SHADE, FROSTED LAMP
Light Source: 1 PHILIPS
FROSTED BULB - 60W EQUIVALENT 929002036204 8.8A19/PER/930/P/E26/DIM
6/1FB T20. PHILIPS
Ballast/Driver: PHILIPS
INTEGRAL TO LAMP

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 215.3 lumens
Efficiency: N/A
Efficacy: 27.3 lumens/watt
Spacing Criteria (0/90/45): 1.57 / 1.57 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 0.67' x H: 1')
CIE Type: Direct

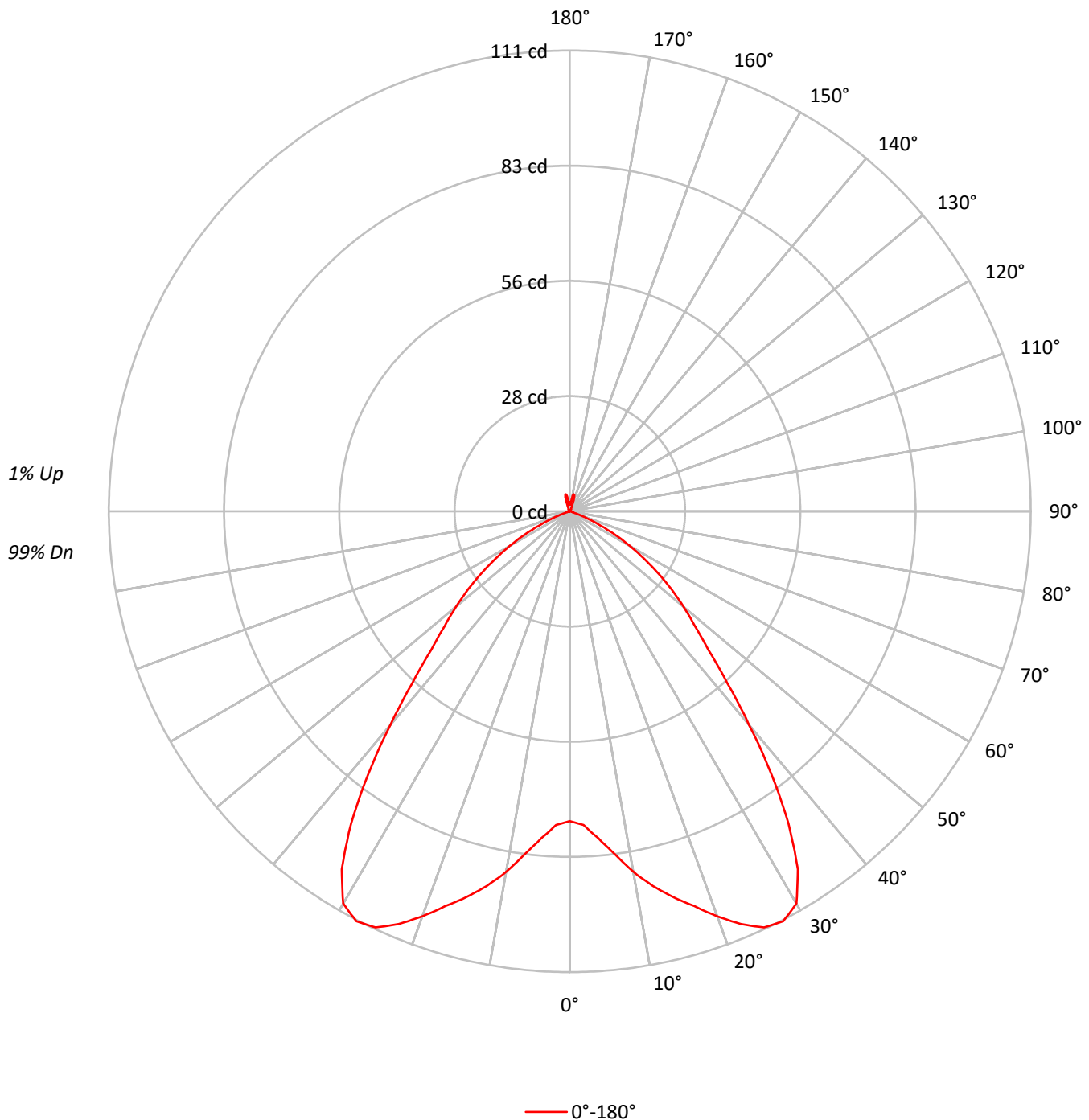
Input Watts (W): 7.9
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0805
Voltage Rise (V): NR
Power Factor: 0.9982
Total Harmonic Distortion (THDi): 70.5%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 7.0 HR
Ambient Temperature (°C): 24.9
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	110	110	110		105	105	105		101
1	111	108	105	102	109	106	103	100	101	99	97		97	95	94		93
2	104	97	92	88	101	95	91	86	92	88	84		89	85	82		85
3	96	88	81	76	94	86	80	75	83	78	74		80	76	73		78
4	89	79	72	67	87	78	71	66	76	70	65		73	68	64		71
5	83	72	64	59	81	71	64	59	69	63	58		67	61	57		65
6	77	66	58	52	75	65	57	52	63	56	52		61	56	51		60
7	72	60	52	47	70	59	52	47	58	51	46		56	50	46		55
8	67	55	48	42	66	54	47	42	53	47	42		52	46	42		51
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	45	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1807
5°	1700
10°	1715
15°	1721
20°	1730
25°	1739
30°	1635
35°	1324
40°	941
45°	645
50°	483
55°	348
60°	226
65°	113
70°	28
75°	9
80°	7
85°	6

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 645 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	3.6
10°-20°	27.5	12.8
20°-30°	50.5	23.5
30°-40°	56.3	26.1
40°-50°	37.5	17.4
50°-60°	23.2	10.8
60°-70°	8.6	4.0
70°-80°	0.9	0.4
80°-90°	0.4	0.2
90°-100°	0.0	0.0
100°-110°	0.1	0.0
110°-120°	0.1	0.1
120°-130°	0.2	0.1
130°-140°	0.3	0.1
140°-150°	0.3	0.1
150°-160°	0.5	0.2
160°-170°	1.0	0.5
170°-180°	0.2	0.1
0°-30°	85.8	39.9
0°-40°	142.1	66.0
0°-60°	202.8	94.2
0°-90°	212.6	98.7
90°-120°	0.2	0.1
90°-150°	0.9	0.4
90°-180°	3.0	1.4
0°-180°	215.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	75	
5°	79	8
15°	96	27
25°	111	51
35°	92	56
45°	47	38
55°	26	23
65°	8	9
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	1	0
165°	4	1
175°	2	0
180°	2	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	74.6
2.5°	75.6
5°	79.1
7.5°	83.3
10°	88.2
12.5°	92.4
15°	96.2
17.5°	99.7
20°	103.8
22.5°	107.6
25°	110.6
27.5°	111.3
30°	109.1
32.5°	102.2
35°	91.8
37.5°	79.7
40°	67.2
42.5°	56.2
45°	47.1
47.5°	40.8
50°	35.7
52.5°	30.8
55°	25.9
57.5°	21.1
60°	16.8
62.5°	12.5
65°	8.3
67.5°	4.7
70°	2.0
72.5°	0.8
75°	0.6
77.5°	0.6
80°	0.5
82.5°	0.5
85°	0.4
87.5°	0.2
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.1
102.5°	0.1
105°	0.1
107.5°	0.0
110°	0.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.1
115°	0.1
117.5°	0.2
120°	0.2
122.5°	0.1
125°	0.2
127.5°	0.2
130°	0.3
132.5°	0.3
135°	0.3
137.5°	0.4
140°	0.4
142.5°	0.4
145°	0.4
147.5°	0.5
150°	0.6
152.5°	0.7
155°	0.8
157.5°	1.4
160°	2.5
162.5°	3.5
165°	4.1
167.5°	4.2
170°	3.7
172.5°	2.5
175°	1.7
177.5°	1.8
180°	2.2

(END OF REPORT)